CLAIMS

- 1. Timepiece, in particular wristwatch comprising a middle (1), a watch movement (4) housed in the middle, a transceiver circuit (5) associated with said movement and an antenna (9; 9A; 9B) connected to said transceiver circuit, characterized in that said antenna (9; 9A; 9B) is formed by a solid electrically conductive monobloc mass (10; 19; 27) having the shape of at least a portion of a ring, this mass being disposed on the periphery of said middle (1), said antenna being connected to the transceiver circuit by way of a conductor (18; 30) passing through the wall of the middle (1) on a portion of its thickness.
- 2. Timepiece according to claim 1, characterized in that said conductive solid mass (10; 19; 27) forms a decorative portion thereof.
- 3. Timepiece according to either one of claims 1 and 2, characterized in that said conductive solid mass (27) is engaged in a groove (28) made in the lateral surface of the middle (1), its outer surface just touching the lateral surface of the middle.
- 4. Timepiece according to claim 2, characterized in that said conductive solid mass (10; 19) forms at least a portion of a bezel of the piece surrounding the glass disk of the latter.
- 5. Timepiece according to any one of claims 1 to 4, characterized in that said conductive solid mass (10; 19; 27) constitutes a closed ring.
- 6. Timepiece according to any one of claims 1 to 5, characterized in that said middle (1) being made of electrically conductive material, said conductive solid mass is separated therefrom by an insulator (14, 17; 23, 24; 29).
- 7. Timepiece according to claim 1, characterized in that said insulator (14, 17; 23, 24; 29) is made of a material chosen from the group consisting of the nitrile rubbers, hydrogenated nitrile rubbers, polyurethanes, silicones, polymers or ceramics.
- 8. Timepiece according to any one of claims 1 to 7, characterized in that said conductive solid mass (10; 19; 27) and, where appropriate, said insulator (14, 17; 23, 24; 29) are fixedly attached to said middle by at least one of the following operations: chasing, screwing, bonding, brazing, crimping and/or riveting.
- 9. Timepiece according to any one of claims 1 to 8, characterized in that said conductive solid mass (10; 19; 27) is made of a metal such as stainless steel or a gold alloy or made of an agglomerated composite mass, in zirconia for example, charged with conductive particles.
- 10. Timepiece according to claim 9, characterized in that said solid conductive mass (10; 19; 27) is coated with a very hard layer (11), made for example of rhodium or diamond.

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- 11. Timepiece according to any one of claims 1 to 10, characterized in that it comprises a conductive element (2) forming a ground plane for said antenna.
- 12. Timepiece according to claim 11, characterized in that, said middle being metallic, said element forming the ground plane consists of the back (2) of this middle.

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- 13. Timepiece according to claim 11, characterized in that, said middle being of an electrically nonconductive material, said element forming the earth plane consists of a metal disk placed inside the middle against the back of the latter.
- 14. Timepiece according to any one of the preceding claims, characterized in that said antenna (9; 9A; 9B) is of capacitive type and connected directly to said transceiver circuit (5).